

2ND GENERATION
GREEN TECHNOLOGY



5-PORT GIGABIT SWITCH

Innovative eco-friendly concept



Reduced power consumption, produces less heat



Intelligent data streaming is ideal for VoIP and gaming



THINK GREEN

The DGS-1005D 5-port Gigabit Switch is part of D-Link's new series of SOHO devices that makes use of D-Link's 2nd generation Green Ethernet technology. The switch provides more energy savings, less heat dissipation and a longer product life without sacrificing operational performance or functionality. An efficient power supply (EnergyStar qualified), minimal harmful substances (RoHS compliant), and recyclable packaging make this switch truly environmentally friendly.

CONSERVE ENERGY

- + Automatically powers down ports that have no link
- + Budgets power output for different Ethernet cable lengths
- + Complies with California's stringent CEC and Australia MEPS regulation requiring the use of more energy efficient power adapters
- + Complies with Energy Star level "V"

PROTECT THE ENVIRONMENT

- + Complies with RoHS directive that restricts the use of certain hazardous materials
- + Complies with WEEE (Waste Electrical and Electronic Equipment) directives that use recyclable packaging to help reduce waste that goes into the environment

GIGABIT CONNECTION FOR HOME AND SOHO

The DGS-1005D offers an economical way for the SOHO and small and medium businesses (SMB) to benefit from the increased bandwidth of Gigabit Ethernet. It provides 5 Gigabit ports for fast server deployment to meet increasing network load.

IEEE 802.1p QoS

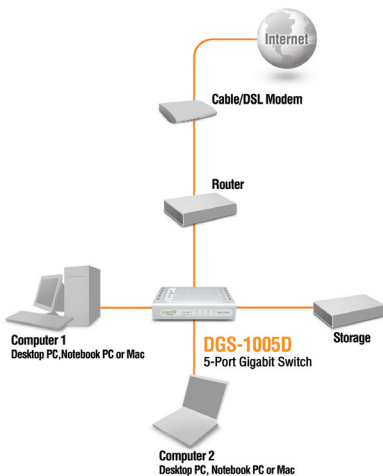
- + Ensures that time-sensitive data is delivered efficiently, even during bursts of high data traffic
- + Ensures an optimal experience for gamers and Internet users through the prioritization of network traffic

CABLE DIAGNOSTIC FUNCTION

The D-Link Cable Diagnostic Function enables users to efficiently determine the cable condition, simply by seeing the LED displayed on the front-panel.

- Detects whether the cables connected to the device's ports are Gigabit-capable (Cat. 5 cables) or of a lower grade (Cat. 3 or 4 cables).
- Determines if the cables' pin connectors are correct to facilitate network troubleshooting.

YOUR NETWORK SETUP



KEY FEATURES

- + Innovative 2nd Generation Green Technology
- + Inexpensive Gigabit solution for SOHO & SMB
- + 5 10/100/1000Mbps Gigabit ports on Cat. 5 cable
- + 10Gbps switching fabric
- + Auto MDI/MDIX cross over for all ports
- + Secure store-and-forward switching scheme
- + Full/half-duplex for Ethernet/Fast Ethernet speeds
- + IEEE 802.3x Flow Control
- + Supports 9,000Bytes Jumbo Frames (only supported in 1000Mbps)
- + Supports IEEE802.1p QoS (4 Queues, Strict Mode)
- + Supports Cable Diagnostic Function
- + RoHS compliant
- + Plug-and-play installation

STANDARDS

- + IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
- + IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
- + IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)
- + ANSI/IEEE 802.3 NWay auto-negotiation
- + IEEE 802.3x Flow Control
- + IEEE 802.1p QoS

PROTOCOL

CSMA/CD

DATA TRANSFER RATES

- + Ethernet:
 - 10Mbps (half duplex)
 - 20Mbps (full duplex)
- + Fast Ethernet:
 - 100Mbps (half duplex)
 - 200Mbps (full duplex)
- + Gigabit Ethernet:
 - 2000Mbps (full duplex)

TECHNICAL SPECIFICATIONS

TOPOLOGY

Star

NETWORK CABLES

- + 10BASE-T:
 - UTP Cat. 3, 4, 5 (100 m max.)
 - EIA/TIA-586 100-ohm STP (100 m max.)
- + 100BASE-TX, 1000BASE-T:
 - UTP Cat. 5, Cat. 5e (100 m max.)
 - EIA/TIA-568 100-ohm STP (100 m max.)

MEDIA INTERFACE EXCHANGE

Auto MDI/MDIX adjustment for all ports

LED INDICATORS

- + Per port: 100Mbps/1000Mbps speed, Link/Activity
- + Per device: Power

TRANSMISSION METHOD

Store-and-forward

MAC ADDRESS TABLE

1K entries per device

MAC ADDRESS LEARNING

Automatic update

PACKET FILTERING/FORWARDING RATES (HALF DUPLEX)

- + Ethernet: 14,880 pps per port
- + Fast Ethernet: 148,810 pps per port
- + Gigabit Ethernet: 1,488,100 pps per port

RAM BUFFER

106KBytes per device

DC INPUT

- + External 5V/1.2A Power Adapter
- + External 7.5V/1A Power Adapter

POWER CONSUMPTION

3 watts

OPERATING TEMPERATURE

0° to 40° C (32° to 104° F)

STORAGE TEMPERATURE

-10° to 70° C (14° to 158° F)

OPERATING HUMIDITY

10% to 90% RH non-condensing

STORAGE HUMIDITY

5% to 90% RH non-condensing

DEVICE DIMENSIONS (W X D X H)

142 x 108 x 31 mm (5.59 x 4.25 x 1.22 inches)

EMISSION (EMI)

- + FCC Class B
- + ICES-003 Class B
- + CE Class B
- + C-Tick Class B
- + VCCI Class B

SAFETY

CSA International

MTBF

101,186 hours



D-Link Corporation

No. 289 Xinhu 3rd Road, Neihu, Taipei 114, Taiwan

Specifications are subject to change without notice.

D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries.

All other trademarks belong to their respective owners.

©2009 D-Link Corporation. All rights reserved.

Release 08 (February 2009)